MC524 Guide

System 5

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Documentation Feedback

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Chapter 1: Introduction to the MC524

The MC524 Monitor Interface centralizes control room monitor and communication signals in one box and places them under remote control by the system operator. The MC524 is a digitally controlled analog signal router and level control device with a built in Talkback microphone circuit in a 2U rack enclosure.

The MC524 receives the 22 monitor busses and two solo busses from the System 5 monitor matrix output and provides a control room output to three speaker sets, four SLS/Cue monitor outputs as well as post preamp talk and listen mic outputs.

The SC253i Interface Pilot digitally controls the MC524 over a 15-pin control cable with a maximum length 100 m. The system operator can control all MC524 parameters from the System 5 control surface. There is only one MC524 in a System 5 configuration.

Features

Mic Inputs

Mic level inputs are provided for four Listen and two Talk mics on a 38-pin Elco connector. An analog gain stage provides boost or attenuation for mic level signals. Talkback mic inputs include phantom power and a compressor.

Line Inputs

There are 24 line level inputs for Control Room feeds, Monitor A–D, and Solo. Line level inputs have attenuation only.

Line Outputs

Line outputs are on 90-pin Elco connectors for eight Monitor A (up to 7.1 monitoring), two each for Monitor B–D, eight Control Room Main (up to 7.1 monitoring), six Control Room Alt 1 (up to 5.1 monitoring), two Control Room Alt 2, four Listen preamp, two Talk preamp out, and two Solo outputs.

All cabling is provided from the digital input to the final user connections of the output patchbay. See the cabling diagrams in Chapter 3, “Configuration and Connection.”

Applications

The MC524 allows the System 5 engineer to adjust all Control Room communications (Level Control, Cut, Dim and speaker selection) from the console Center Section. We recommend installing the MC524 in the Control Room.

System Requirements and Compatibility

Avid can only assure compatibility and provide support for hardware and software it has tested and approved.

For complete system requirements and a list of qualified computers, operating systems, hard drives, and third-party devices, visit *www.avid.com/compatibility*.

About This Guide

This guide provides a basic overview of MC524 features and functionality.

For complete instructions on connecting and configuring your system, see the *System 5 Installation Guide*.

Conventions Used in This Guide

All of our guides use the following conventions to indicate menu choices and key commands:

Convention	Action
File > Save	Choose Save from the File menu
Control+N	Hold down the Control key and press the N key
Control-click	Hold down the Control key and click the mouse button
Right-click	Click with the right mouse button

The names of Commands, Options, and Settings that appear on-screen are in a different font.

The following symbols are used to highlight important information:

User Tips are helpful hints for getting the most from your system.

Important Notices include information that could affect your data or the performance of your system.

Shortcuts show you useful keyboard or mouse shortcuts.

Cross References point to related sections in this guide and other Avid guides.

About www.avid.com

The Avid website (www.avid.com) is your best online source for information to help you get the most out of your system. The following are just a few of the services and features available.

Product Registration Register your purchase online.

Support and Downloads Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Avid user community on the User Conference.

Training and Education Study on your own using courses available online or find out how you can learn in a classroom setting at a certified Avid training center.

Products and Developers Learn about Avid products; download demo software or learn about our Development Partners and their plug-ins, applications, and hardware.

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Chapter 2: MC524 Features

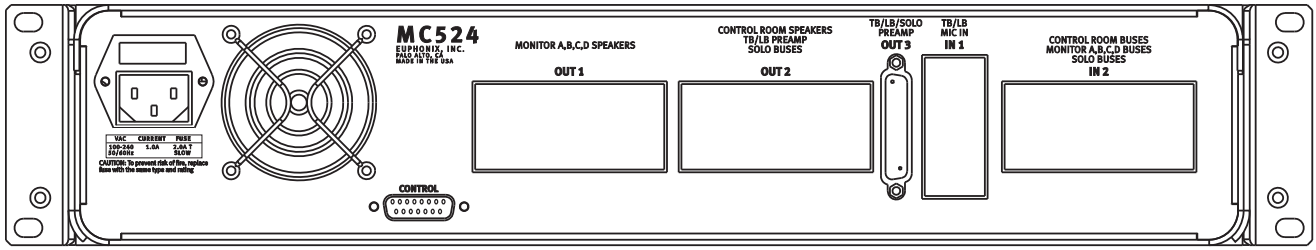
Front Panel

MC524 front panel

Power Switch The power switch turns the unit on/off.

Since the MC524 is software controlled, the power switch is the only front panel control.

Back Panel



MC524 back panel

In 1 (38-pin Elco) Talkback, Listen Back and Mic inputs. This connector receives four stereo listen channels and two stereo talk mic inputs. All signals input at this port can be level boosted or attenuated. In standard patch configuration, input cable fans out to 12 XLR females.

In 2 (90-pin Elco) Control Room Busses, Monitor A, B, C, D, and Solo busses inputs. This connector receives eight Monitor A channels, and two each channels for Monitor B, C, D. Signals input at this port can only be level attenuated. In standard configuration these signals are fed from the AM713 converter.

Out 1 (90-pin Elco) Monitor A, B, C, D Speaker outputs. This connector outputs eight Control Room channels, eight Monitor A channels, and two each channels for Monitor B, C, D, and Solo. The output cable fans out to two 38-pin Elco connectors for the patchbay.

Out 2 (90-pin Elco) This connector outputs eight Control Room Main channels, six Control Room Alt 1 channels, two Control Room Alt 2 channels, four Listen pre, two talk pre and two Solo channels. The output cable fans out to two 38-pin Elco connectors for the patchbay.

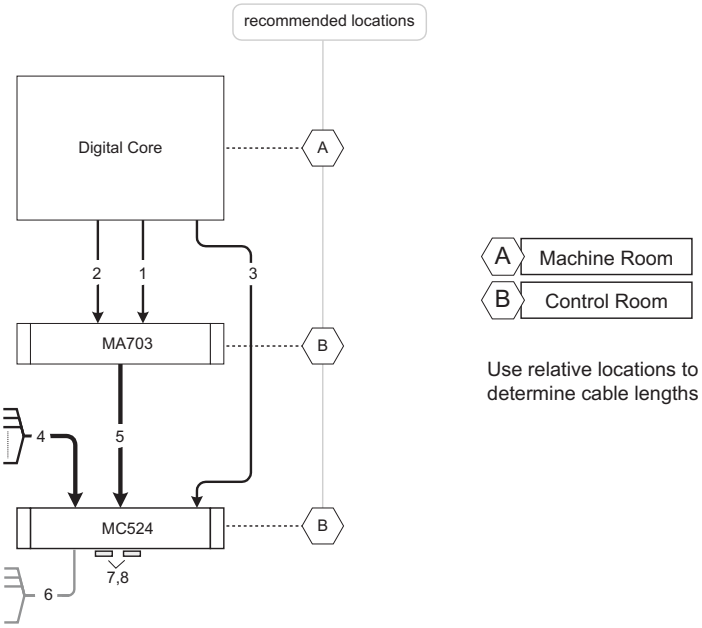
Out 3 (DB-25 female) This connector outputs four Listen pre, two Talkback pre, and two Solo channels, eight Monitor A channels, and two channels each for Monitor B, C, D, and Solo. The output cable fans out to eight male XLR connectors.

Control (DB-15) Input for digital control signal from Digital Pilot. Signal format is Euphonix TCC bi-directional serial protocol. All patching, switching, and gain controls are communicated via this connection as well as MC524 IP address.

AC Line In (IEC) and Fuse Tray The power connector accepts standard IEC power cords. 110, 220, or 240 VAC, 50/60 Hz can be applied at this connector.

Chapter 3: Configuration and Connection

Standard Configuration



MC524 standard cable diagram

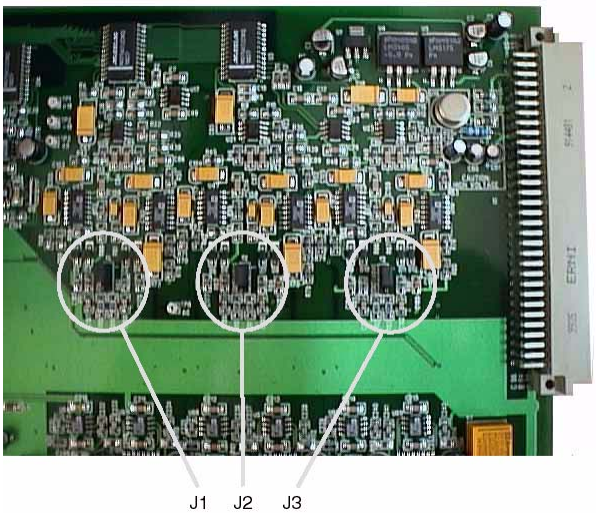
Standard Configuration Cable Specification

Cable	Qty	Description	10m Part #	20m Part#	Length
		Accessory cable kits by special order	936-07084-01	936-07156-01	
1	1	**MADI Output**: RG59 75 Ω coax	032-07230-00	032-07306-00	
2	1	**AES/EBU Sync**: one male XLR <> one female XLR	030-07085-01	030-07153-01	
3	1	TCC Control from 253i Interface Pilot	030-06983-01	030-06985-01	
4	1	**TB/LB Mic**: one male Elco 38 <> 12 female XLR	030-06919-01		2 m
5	1	**CR/Mon/Solo Bus**: one male Elco 90 <> 24 female XLR	030-07225-01		1 m
6	1	**TB and LB Mic Pre Out**: one DB-25 <> eight male XLR	032-07038-00		3 m
7	2	Elco 90-pin Connector w/hood	100-07470-00		NA
8	180	Elco Crimp Pins	100-02100-00		NA

The standard lengths in the above table are supplied so the monitor interface can be located in the control room. Cable kits are ordered separately. Custom lengths are available.

Phantom Power: 48V Jumper Settings

Phantom power is enabled by fitting the link to short pins 1 and 2. If not required (i.e., using a dynamic mic) then it should be set to short pins 2 and 3. Pin 1 position can be ascertained by looking for the square pad on the solder side.

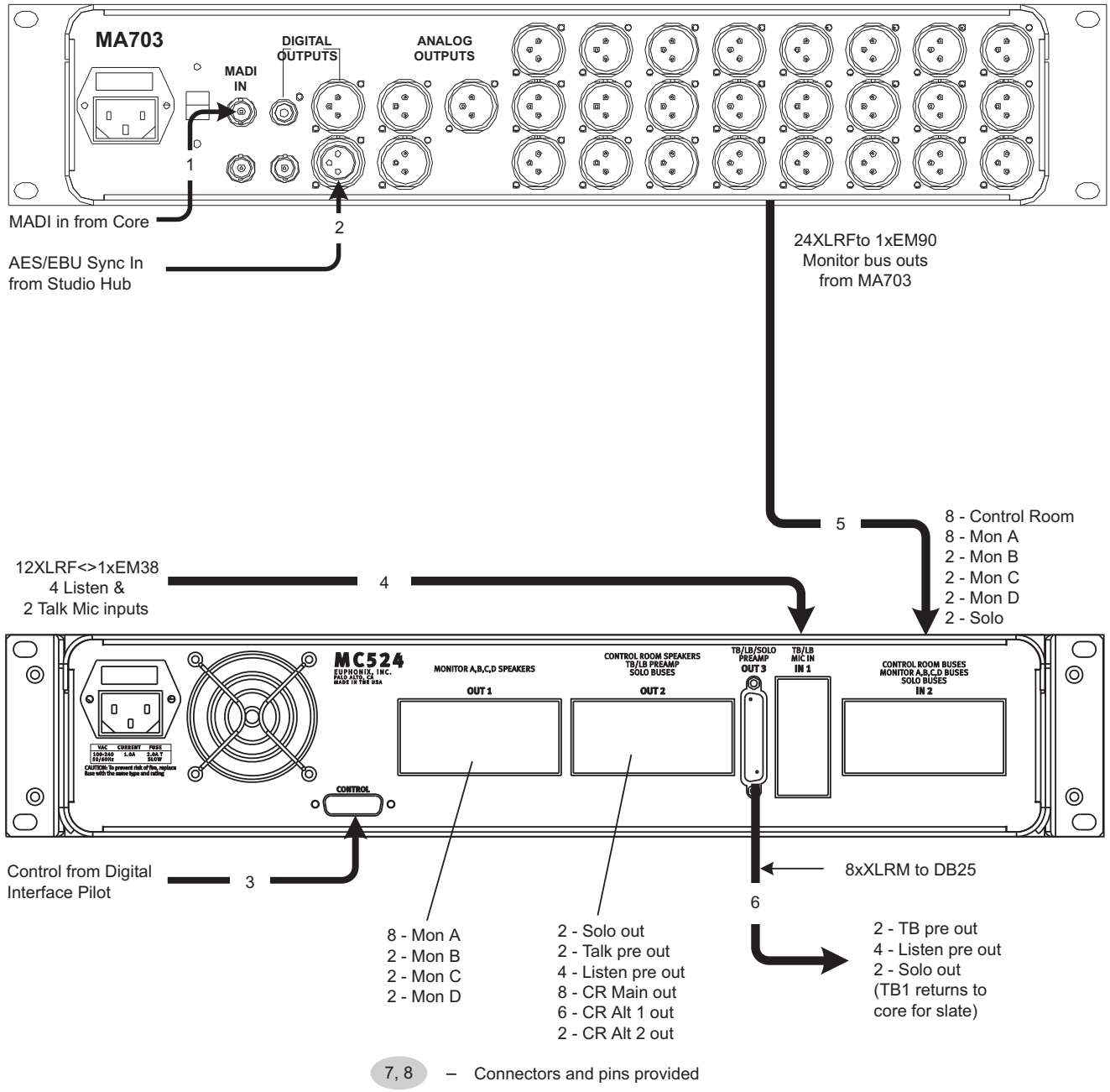


Pins set to phantom power

Note that the standard Talkback mic on the console (wired to T1) is a condenser type which requires phantom power. The following table shows the mapping of the jumpers:

Upper Board		Lower Board	
J1	Talkback 1 (T1)	J1	Listen 2 (L2)
J2	Talkback 2 (T2)	J2	Listen 3 (L3)
J3	Listen 1 (L1)	J3	Listen 4 (L4)

Standard Configuration Connection Diagram

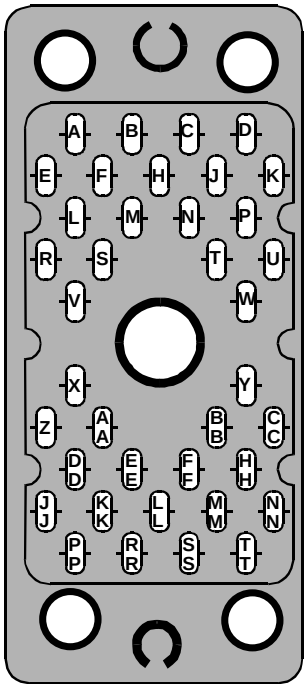


MC524 standard configuration

Input/Output Connections

In 1 Elco 38 Pinout

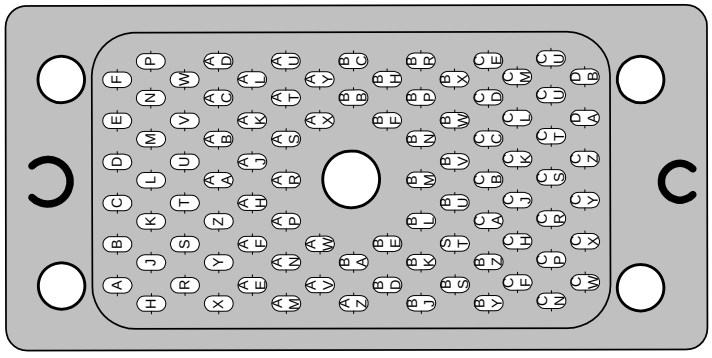
Crk #	Designator	24 X 32	High	Low	Gnd
1	M1	Talk 1	A	E	L
2	M2	Talk 2	B	F	M
3	M3	Listen 1	C	H	N
4	M4	Listen 2	D	J	P
5	M5	Listen 3	DD	JJ	PP
6	M6	Listen 4	EE	KK	RR
7			FF	LL	SS
8			HH	MM	TT
9			R	S	V
10			T	U	W
11			X	Z	AA
12			Y	BB	CC



Elco 38 connector

In 2 Elco 90 Pinout

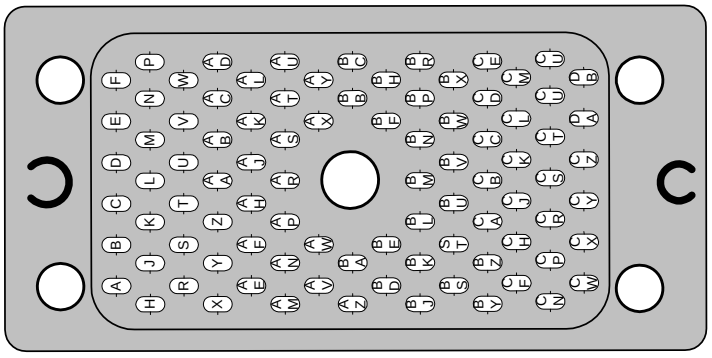
Crk #	Designator	24 X 32	High	Low	Gnd
1	L3	Cntrl Rm (L)	A	H	R
2	L4	Cntrl Rm (C)	B	J	S
3	L5	Cntrl Rm (R)	C	K	T
4	L6	Cntrl Rm (Sl)	D	L	U
5	L7	Cntrl Rm (Sr)	E	M	V
6	L8	Cntrl Rm (B)	F	N	W
7	L9	Cntrl Rm (Li)	X	AE	AM
8	L10	Cntrl Rm (Ri)	Y	AF	AN
9	L11	Mon A (L)	Z	AH	AP
10	L12	Mon A (C)	AA	AJ	AR
11	L13	Mon A (R)	AB	AK	AS
12	L14	Mon A (Sl)	AC	AL	AT
13	L15	Mon A (Sr)	BJ	BS	BY
14	L16	Mon A (B)	BK	BT	BZ
15	L17	Mon A (Li)	BL	BU	CA
16	L18	Mon A (Ri)	BM	BV	CB
17	L19	Mon B (L)	BN	BW	CC
18	L20	Mon B (R)	BP	BX	CD
19	L21	Mon C (L)	CF	CN	CW
20	L22	Mon C (R)	CH	CP	CX
21	L23	Mon D (L)	CJ	CR	CY
22	L24	Mon D (R)	CK	CS	CZ
23	L1	Solo (L)	CL	CT	DA
24	L2	Solo (R)	CM	CU	BD



Elco 90 connector

Out 1Elco 90 Pinout

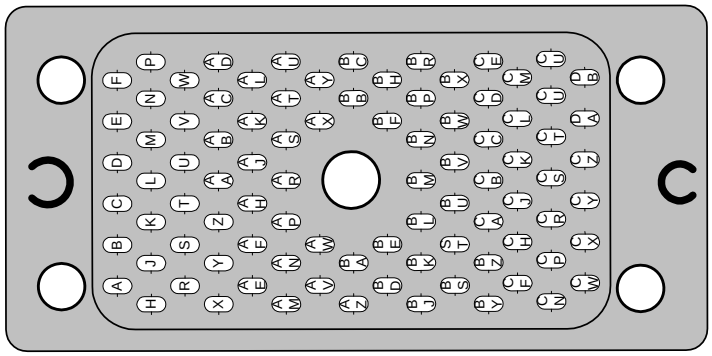
Crk #	Designator	24 X 32	High	Low	Gnd
1	BO11	Mon A (L)	A	H	R
2	BO12	Mon A (C)	B	J	S
3	BO17	Mon A (R)	C	K	T
4	BO18	Mon A (Sl)	D	L	U
5	BO19	Mon A (Sr)	E	M	V
6	BO20	Mon A (B)	F	N	W
7	BO21	Mon A (Li)	X	AE	AM
8	BO22	Mon A (Ri)	Y	AF	AN
9	BO23	Mon B (L)	Z	AH	AP
10	BO24	Mon B (R)	AA	AJ	AR
11	BO25	Mon C (L)	AB	AK	AS
12	BO26	Mon C (R)	AC	AL	AT
13	BO27	Mon D (L)	BJ	BS	BY
14	BO28	Mon D (R)	BK	BT	BZ
15			BL	BU	CA
16			BM	BV	CB
17			BN	BW	CC
18			BP	BX	CD
19			CF	CN	CW
20			CH	CP	CX
21			CJ	CR	CY
22			CK	CS	CZ
23			CL	CT	DA
24			CM	CU	BD



Elco 90 connector

Out 2 Elco 90 Pinout

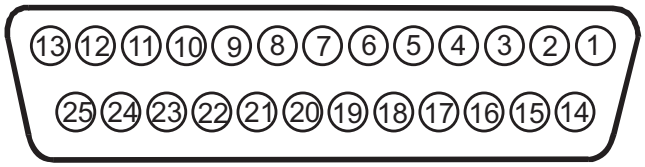
Crk #	Designator	24 X 32	High	Low	Gnd
1	BO31	Solo L	A	H	R
2	BO32	Solo R	B	J	S
3	TL1	Talk 1	C	K	T
4	TL2	Talk 2	D	L	U
5	TL3	Listen 1	E	M	V
6	TL4	Listen 2	F	N	W
7	TL5	Listen 3	X	AE	AM
8	TL6	Listen 4	Y	AF	AN
9	BO3	CR main (L)	Z	AH	AP
10	BO4	CR main (C)	AA	AJ	AR
11	BO5	CR main (R)	AB	AK	AS
12	BO6	Cntrl Rm (Sl)	AC	AL	AT
13	BO7	Cntrl Rm (Sr)	BJ	BS	BY
14	BO8	CR main (B)	BK	BT	BZ
15	BO9	CR main (Li)	BL	BU	CA
16	BO10	CR main (Ri)	BM	BV	CB
17	BO13	CR Alt 1 (L)	BN	BW	CC
18	BO14	CR Alt 1 (C)	BP	BX	CD
19	BO15	CR Alt 1 (R)	CF	CN	CW
20	BO16	CR Alt 1 (Sl)	CH	CP	CX
21	BO29	CR Alt 1 (Sr)	CJ	CR	CY
22	BO30	CR Alt 1 (B)	CK	CS	CZ
23	BO1	CR Alt 2 (L)	CL	CT	DA
24	BO2	CR Alt 2(R)	CM	CU	BD



Elco 90 connector

Out 3 DB-25 Pinout

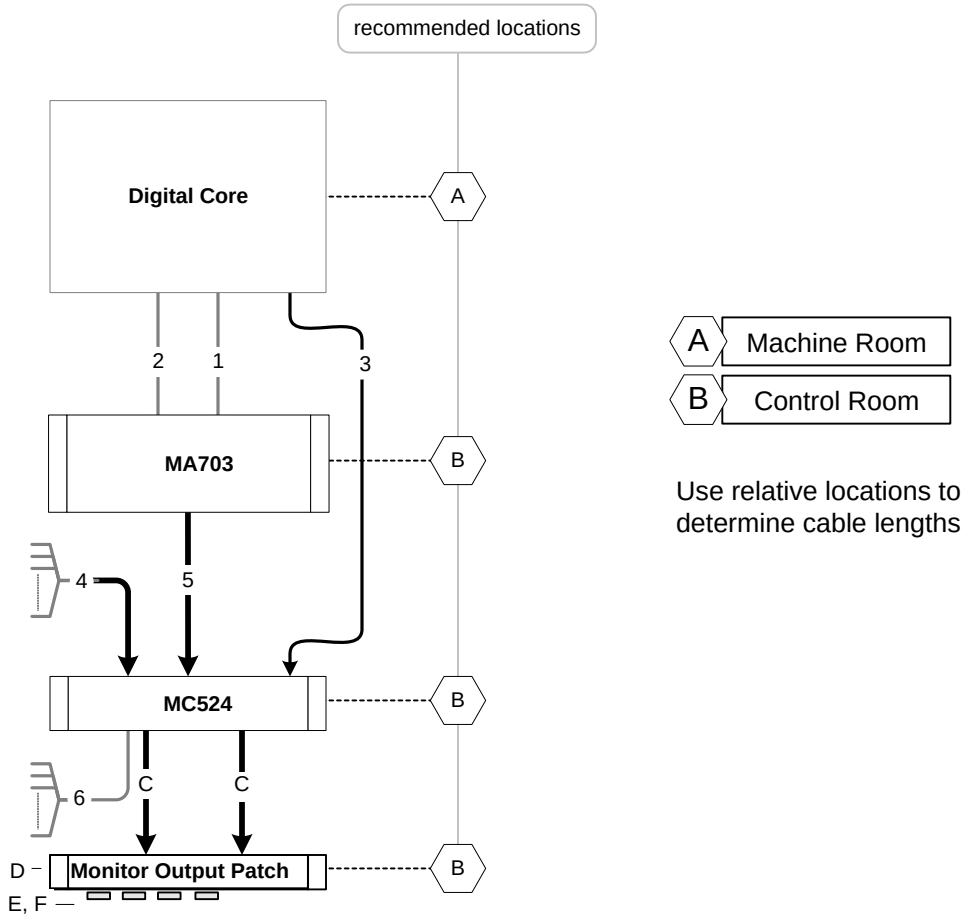
Crk #	Designator	24 X 32	High	Low	Gnd
1		T1	24	12	25
2		T2	10	23	11
3		L1	21	9	22
4		L2	7	20	8
5		L3	18	6	19
6		L4	4	17	5
7		Solo L	15	3	16
8		Solo R	1	14	2



DB-25 connector

Optional Configurations

Monitor Output Patch



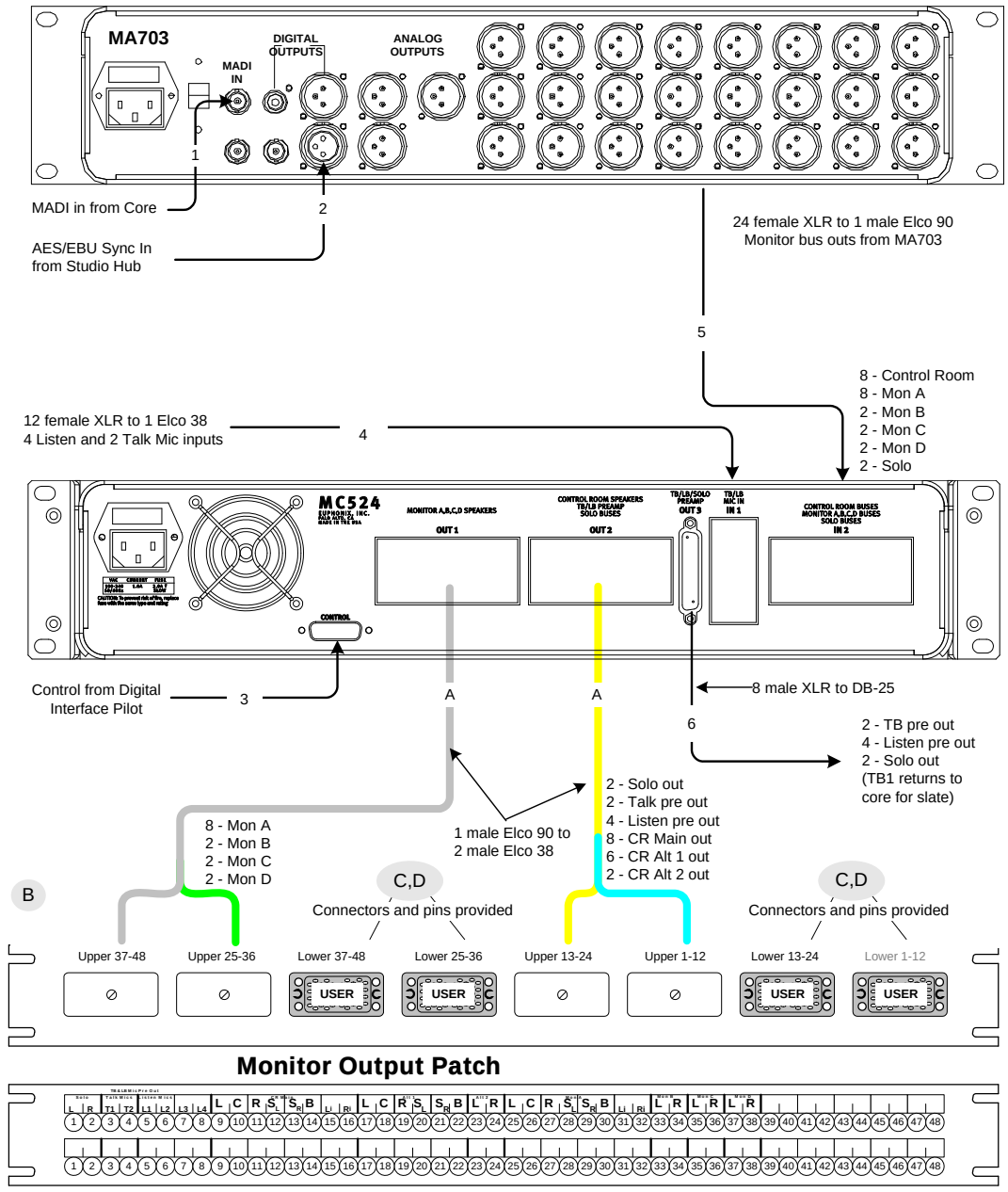
Monitor output patch cable diagram

Monitor Output Patch Cable Specification

Part	Qty	Description	Part #	Length
C	2	**MC524 Patch Connect**: one male Elco 90 <> two male Elco 38	030-07036-01	2 m
D	1	Tie Line Patch	950-03770-01	NA
E	4	Elco 38-Pin Connector w/hood	100-02099-00	NA
F	160	Elco Crimp Pins (Supplied with standard configuration)	100-02100-00	2 m

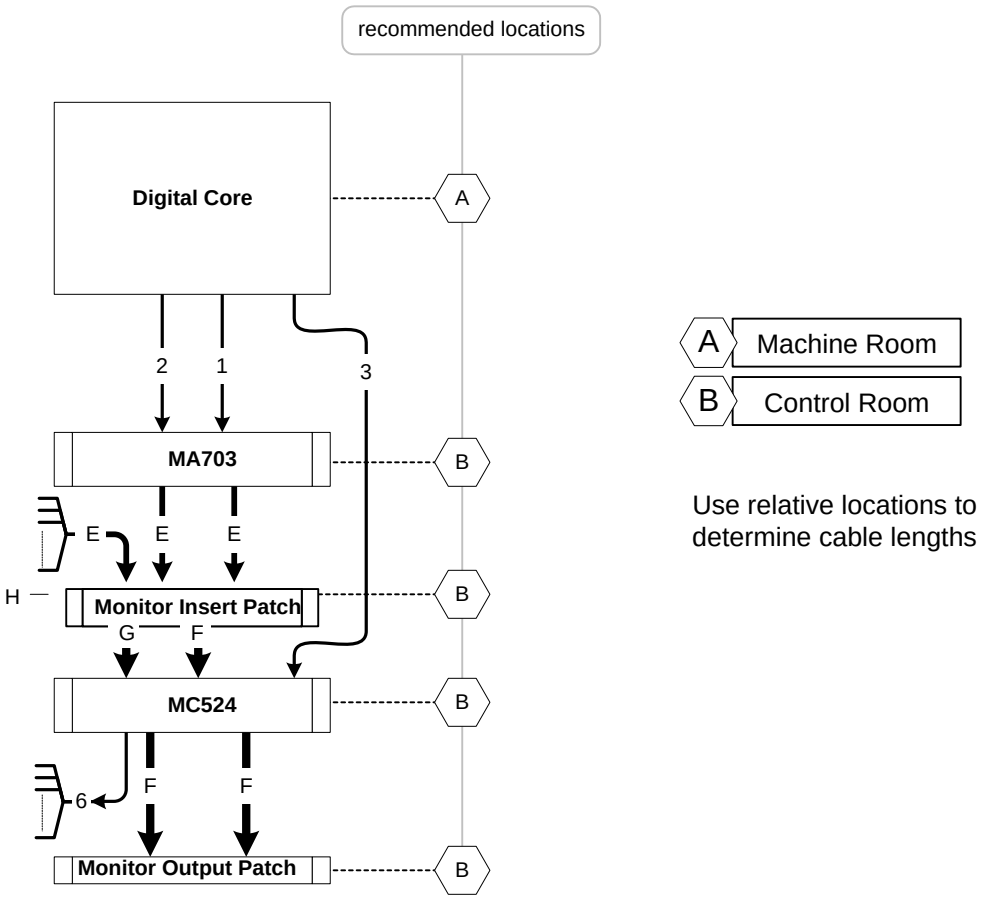
Patchbay, cables, pins and connectors are ordered separately.

Monitor Output Patch Connection Diagram



Monitor output patch configuration

Monitor Insert Patch

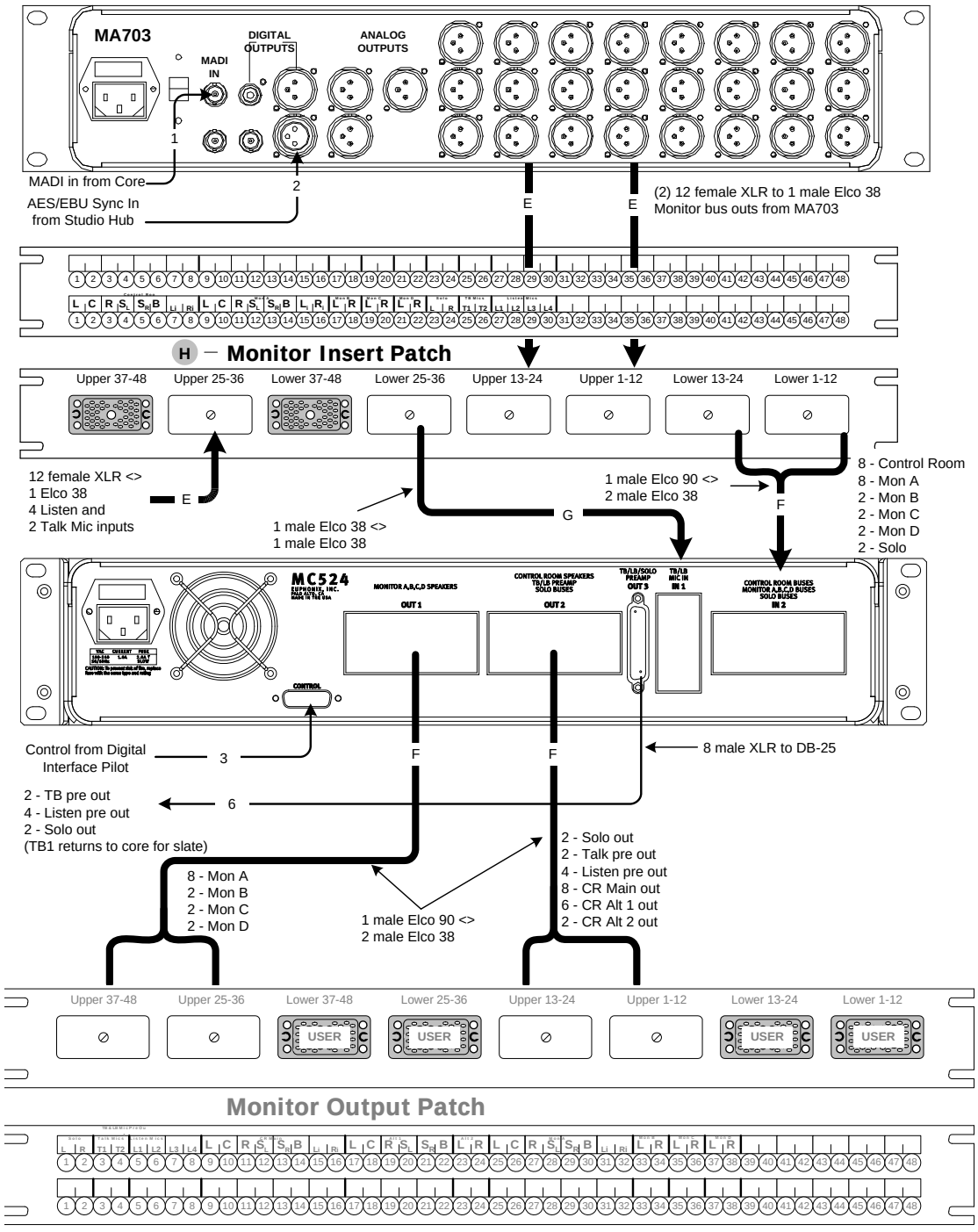


Monitor insert patch cable diagram

Monitor Insert Patch Cable Specification

Part	Qty	Description	Part #	Length
E	3	**TB/LB Mic, Bus**: one male Elco 38 <> 12 female XLR	030-06919-01	2 m
F	3	**MC524 Patch Connect**: one male Elco 90 <> two male Elco 38	030-07036-01	2 m
G	1	**MC524 Patch Connect**: one male Elco 38 <> one male Elco 38	030-07158-01	2 m
H	1	Tie Line Patch	950-03770-01	NA

Monitor Insert Patch Connection Diagram

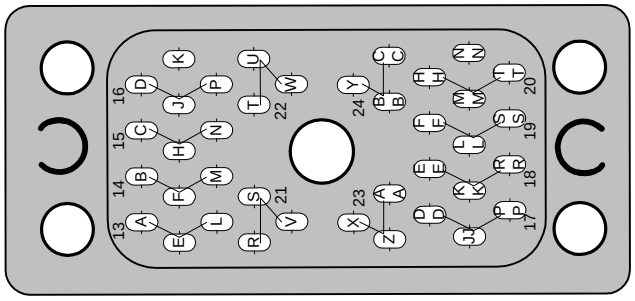

MA703
DIGITAL OUTPUTS
ANALOG OUTPUTS
MADI IN
MADI in from Core
AES/EBU Sync In from Studio Hub
(2) 12 female XLR to 1 male Elco 38 Monitor bus outs from MA703
H – Monitor Insert Patch
Upper 37-48
Upper 25-36
Lower 37-48
Lower 25-36
Upper 13-24
Upper 1-12
Lower 13-24
Lower 1-12
12 female XLR <> 1 Elco 38 4 Listen and 2 Talk Mic inputs
1 male Elco 38 <> 1 male Elco 38
1 male Elco 90 <> 2 male Elco 38
8 - Control Room
8 - Mon A
2 - Mon B
2 - Mon C
2 - Mon D
2 - Solo
MC524
Control from Digital Interface Pilot
8 male XLR to DB-25
2 - TB pre out
4 - Listen pre out
2 - Solo out
(TB1 returns to core for slate)
8 - Mon A
2 - Mon B
2 - Mon C
2 - Mon D
1 male Elco 90 <> 2 male Elco 38
2 - Solo out
2 - Talk pre out
4 - Listen pre out
8 - CR Main out
6 - CR Alt 1 out
2 - CR Alt 2 out
USER
Monitor Output Patch

Monitor insert patch configuration

Tie Line Patch Elco 38 Pinout

Signal Name	Hot	Cold	Shield	Connector Pair Number
Channel 1, 13, 25, 37 Input/Output	pin A	pin E	pin L	1
Channel 2, 14, 26, 38 Input/Output	pin B	pin F	pin M	2
Channel 3, 15, 27, 39 Input/Output	pin C	pin H	pin N	3
Channel 4, 16, 28, 40 Input/Output	pin D	pin J	pin P	4
Channel 5, 17, 29, 41 Input/Output	pin DD	pin JJ	pin PP	5
Channel 6, 18, 30, 42 Input/Output	pin EE	pin KK	pin RR	6
Channel 7, 19, 31, 43 Input/Output	pin FF	pin LL	pin SS	7
Channel 8, 20, 32, 44 Input/Output	pin HH	pin MM	pin TT	8
Channel 9, 21, 33, 45 Input/Output	pin R	pin S	pin V	9
Channel 10, 22, 34. 46 Input/Output	pin T	pin U	pin W	10
Channel 11, 23, 35, 47	pin X	pin Z	pin AA	11
Channel 12, 24, 36, 48 Input/Output	pin Y	pin BB	pin CC	12

Rear View of Elco Male 38-Pin Connector (Insert pins from this side)



Elco 38 connector (rear view)

Connector Specifications

38-pin male w/ hood Elco P/N 00-8016-038000-519 (Euphonix P/N 100-02099)

Use crimp pins Elco P/N 60-8017-031300-339 (Euphonix P/N 100-02100)

Appendix A: MC524 Specifications

Performance Specifications

Main Inputs	**Solo, CR 7, Mon A, B, C, D**
Description	Electronically balanced, transformerless, differential input
Gain	Variable from 0 dB (unity) to -72 dB
Optimum Input Levels	Set to 0 dBFS = +26 dBu. Designed to be fed from MA703 DAC.
Maximum Input Level Before Clipping	>+28 dBu (sine wave)
Maximum Input Voltages	±16 VDC, ±25 VAC (common mode), ±50 VAC (differential)
Input impedance	10 kΩ ±10% each leg, 20 Hz – 20 kHz
CMRR	>40 dB (50 dB typical), 20 Hz – 20 kHz
Talkback and Listen Mic Inputs	**T1, T2, L1–L4**
Description	Electronically balanced, transformerless, differential input with automatic level optimization
Gain	AGC circuit optimizes front end gain to produce approx. +8 dBu signal; this is variable from +8 to -64 dBu at the monitor outputs
Maximum Input Level Before Clipping	10 dBu (sine wave)
Maximum Input Voltages	±50 VDC, ±2.5 VAC (common mode), ±5 VAC (differential)
Phantom Power	48 V available, link selectable on PCB
Frequency Response	Attenuated LF and HF response, -3 dB at 200 Hz and 10 kHz
Monitor Outputs	
Description	Electronically balanced and floating, differential output
Maximum Output Level	>+28 dBu (sine wave)
Output Impedance	100 Ω ±10%, balanced or unbalanced, 20 Hz – 20 kHz
DC Offset	< ±5 mV with respect to chassis GND
Full Signal Path	**Main Input To Main Output**
Frequency Response	0/-0.4 dB, 20 Hz – 20 kHz (ref. 1 kHz)
Signal Breakthrough with Full Cut	<-110 dB, 20 Hz – 20 kHz
Distortion	<0.005%, 20 Hz – 20 kHz, +15 dBu output level
Crosstalk	<-100 dB at 1 kHz; <-90 dB at 20 kHz
Output Noise	typically <-90 dBu RMS (unweighted); >117 dB of dynamic range

Environmental and Power Specifications

Operating Temperature	5–35°C
Power Requirements	90–240 VAC, 50/60Hz
Power Consumption	70 W

Physical Dimensions

Height	3.5 inches
Width	19 inches
Depth	18.6 inches
Weight	17 lb

⚠ *Leave about six inches behind the MC524 for cable connections.*

Appendix B: Compliance Information

Environmental Compliance

Disposal of Waste Equipment by Users in the European Union

This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

Proposition 65 Warning

⚠ *This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.*

Perchlorate Notice

This product may contain a lithium coin battery. The State of California requires the following disclosure statement: "Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Recycling Notice

EMC (Electromagnetic Compliance)

Avid declares that this product complies with the following standards regulating emissions and immunity:

- FCC Part 15 Class A
- EN55103-1 E4
- EN55103-2 E4
- AS/NZS CISPR 22 Class A
- CISPR 22 Class A

FCC Compliance for United States

Communication Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any modifications to the unit, unless expressly approved by Avid, could void the user's authority to operate the equipment.

Australian Compliance

Canadian Compliance

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le material brouilleur du Canada.

CE Compliance

(EMC and Safety)

Avid is authorized to apply the CE (Conformité Européenne) mark on this compliant equipment thereby declaring conformity to EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

Safety Compliance

Safety Statement

This equipment has been tested to comply with USA and Canadian safety certification in accordance with the specifications of UL Standards: UL 60950-1:2007, 2nd Ed and CAN/CSA-22.2 No. 60950-1-07, 2nd Ed. Avid Inc., has been authorized to apply the appropriate NRTL mark on its compliant equipment.

Warning

Important Safety Instructions

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this equipment near water.

6) Clean only with dry cloth.

7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.

11) Only use attachments/accessories specified by the manufacturer.

12) For products that are not rack-mountable: Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.

13) Unplug this equipment during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.

15) For products that are a Mains powered device:
The equipment shall not be exposed to dripping or splashing and no objects filled with liquids (such as vases) shall be placed on the equipment.

Warning! To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

16) For products containing a lithium battery:
CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

17) For products with a power switch:
It should remain accessible after installation.

18) The equipment shall be used at a maximum ambient temperature of 40° C.

19) This unit is provided with a power supply cord set suitable for 120V AC input only (for U.S.A.and Canada). For other than U.S.A. and Canada, a qualified person must provide for use with this unit, an appropriate, approved power supply cord set which is in compliance with the end use country requirements and has a minimum cross-sectional area of 1.0mm2.

20) For units with more than one power cord:

CAUTION: This unit has more than one power supply cord. Disconnect two power supply cords before servicing to avoid electrical shock.

ATTENTION: Cet appareil comporte plus d'un cordon d'alimentation. Afin de prévenir les chocs électriques, débrancher les deux cordons d'alimentation avant de faire le dépannage.

21) For products with an operator-accessible fuse:

CAUTION: For continued protection against risk of fire, replace only with same type and rating of fuse.

ATTENTION: Pour ne pas compromettre la protection contre les risques d'incendie, remplacer par un fusible de même type et de même caractéristiques nominales.

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Technical Support (USA)
Visit the Online Support Center at
www.avid.com/support

Product Information
For company and product information,
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